INDEX

Acoustic projection system, 463
Action potentials, 339

BERNHARD, C. G. Distribution of internuncial activity in a multineuron reflex chain, 393
——, and REXED, B. The localization of the premotor interneurons discharging through the peroneal nerve, 387
BERRY, C., NEUMANN, C., and HINSEY, J. C. Nerve regeneration in cats on vitamin B_1 deficient diets, 315
Brain, electrical activity, 47
—— potentials, changes in, 155
—— ——, convulsions, 155
—— stem, transection, 275
——, vasomotor changes in, 449
BULLOCK, T. H. Functional organization of giant fiber system of *Lumbricus*, 55

Cat, anaesthetized, EEG, 99
——, B_1 deficient diets, 315
——, EEG, 99
——, decorticate, 309
——, nerve regeneration, 315
——, parietal lobe, 257
——, pial vessels, 29
——, rapid decompression, 29
——, retina, 123
Causalgia, 289
Cephalic pons, transection, 275
CHANG, H-T. Choreiform movements in a dog suffering from cortico-striatal disease, 89
Cholinesterase, 137
Choreiform movements, 89
CLARK, S. L., and WARD, J. W. Electroencephalogram of different cortical regions of normal and anaesthetized cats, 99
COHN, R., and GERSH, I. Changes in brain potentials during convulsions induced by oxygen under pressure, 155
Colliculus, superior, cat, 123
Convulsions, by oxygen, 155
Convulsive activity, 233
Cortex, action potentials of, 339
——, cerebral, chemical changes, 233
——, ——, convulsive activity, 233
——, rostral cingular, 241
Cortical regions, EEG in cats, 99

DARROW, C. W., and GRAF, C. G. Relation of electroencephalogram to photometrically observed vasomotor changes in the brain, 449
Decompression, gas bubbles following, 29
Depression, cortical, 33
Dermatomes, lumbar sympathetic, 323
——, skin resistance method, 323
Diencephalic-cortical relations, 431
Disease, cortico-striatal, 89
Dog, bilateral sympathectomy, 1
——, choreiform movements, 89
——, cortico-striatal disease, 89
——, EEG changes, 161
——, head injuries, 161
——, skeletal muscle, 409
DOW, R. S., ULETT, G., and TUNTURI, A. Electroencephalographic changes following head injuries in dogs, 161
Drugs, anticonvulsant, 221
DUKES, H. H., see PAPEZ, J. W., 1
DUNN, A. L., See MCINTYRE, A. R., 297
Dysreflexia, 275

EDDS, M. V., JR., See WEISS, P., 173
Electroencephalogram, cortical regions, 99
——, vasomotor changes in brain, 449
Electrolytes, depletion, 47
Electrotonus, transmission, 377
Emotion, diencephalic-cortical relations, 431
Excitability, electric, 77
Excitation, electrical, rostral cingular cortex, 241
Eye, contralateral transplantation, 15

FELDER, R. E., See ADES, H. W., 463
Fiber, efferent, 257
——, nerve muscle preparation, 77
——, sympathetic, cholinesterase in, 137
—— system, *Lumbricus*, 55
Function, recovery of, 221

Ganglia, basal, decorticate cats, 309
——, cholinesterase in, 137
GELLHORN, E., See MURPHY, J. P., 339, 341
GERSH, I., See COHN, R., 155
Gland, adrenal, splanchnic innervation, 1
GOBBEL, W. G., JR., and LILES, G. W. Efferent fibers of the parietal lobe of the cat (*Felix domesticus*), 257
GRANIT, R. The colour receptors of the mammalian retina, 195
GRANIT, R., and SKOGLUND, C. R. The effect of temperature on the artificial synapse formed by the cut end of the mammalian nerve, 211
GROAT, R. A., See KOENIG, H., 267
GURDJIAN, E. S., See STONE, W. E., 233

Head injuries, electroencephalic changes, 161

HINSEY, J. C., See BERRY, C., 315
HOLLINSHEAD, W. H., See SAWYER, C. H., 137

Innervation, multiple, 409
——, splanchnic, regeneration, 1
Interneurons, premotor, localization, 387
Internuncial activity, 393

JENSEN, A. V., See PAPEZ, J. W., 1

KELLER, A. D. Generalized atonia and profound dysreflexia following transection of the brain stem through the cephalic pons, 275
KENNARD, M. A., See WATSON, C. W., 221
KING, R. E., See MCINTYRE, A. R., 297
KEONIG, H., and GROAT, R. A. Effects of lowering the blood pH on excitability of the nervous system, 267
KUFFLER, S. W. Action of veratrine on nerve-muscle preparations, 113
—— Electric excitability of nerve-muscle preparations, 77
KUNTZ, ALBERT. Anatomic and physiologic properties of cutaneovisceral vasomotor reflex arcs, 421

LEÃO, A. A. P., and MORISON, R. S. Propagation of spreading cortical depression, 33
Lesions, cerebral cortical, 221
LILES, G. W., See GOBBELL, W. G., JR., 257
Lobe, parietal, efferent fibers, 257
LÖWENBACH, H., See MARKEE, J. E., 409
Lumbricus, giant fiber system, 55

MCINTYRE, A. R., KING, R. E., and DUNN, A. L. Electrical activity of denervated mammalian skeletal muscle as influenced by d-Tubocurarine, 297
MARKEE, J. E., and LÖWENBACH, H. The relation between multiple innervation and "segmental" response of skeletal muscle of the dog, 409
MILLER, M. M., See PICK, E. P., 47
MORISON, R. S., and BASSETT, D. L. Electrical activity of the thalamus and basal ganglia in decorticate cats, 309
——, See LEÃO, A. A. P., 33
Movements, choreiform, 89
——, cortically induced, 339
Multineuron reflex chain, 393
MURPHY, J. P., and GELLHORN, E. Further investigations on diencephalic-cortical relations and their significance for the problem of emotion, 431
——, ——, The influence of hypothalamic stimulation on cortically induced movements and on action potentials of the cortex, 339
Muscle, denervated skeletal, 297
——, d- Tubocurarine, 297
——, electrical activity, 297
——, mammalian, 297
——, skeletal of dog, 409

Nerve injuries, 289
——, mammalian, cut end, 211
—— muscle preparations, veratrine, 113
——, optic, crossing of, 15
——, peroneal, 387
—— regeneration, 315
——, sensory-motor, 173
——, severed mammalian, 365
Nervous system, excitability, 267
—— ——, lowering of blood pH, 267
NEUMANN, C., See BERRY, C., 315

Pain after nerve injuries, 289
PAPEZ, J. W., JENSEN, A. V., and DUKES, H. H. Degree and nature of regeneration of splanchnic innervation to the adrenal gland two years following complete bilateral sympathectomy in dogs, 1
pH, blood, effects of lowering, 267
Pial vessels, decompression, 29
—— ——, gas bubbles, 29
PICK, E. P., and MILLER, M. M. Influence of depletion of diffusible electrolytes upon electrical activity of the brain, 47
PORTER, E. L., and TAYLOR, A. N. Facilitation of flexion reflex in relation to pain after nerve injuries (causalgia), 289
Post-fibres, direct stimulation, 365
——, transsynaptic stimulation, 365

Rat, sensory-motor nerve, 173
Receptors, colour, of retina, 195
Reflex, flexion, 289
Response, "segmental," 409
Retina, mammalian, colour receptors, 195
——, projection, cat, 123
Review. *The precentral motor cortex*, 73
REXED, B., See BERNHARD, C. G., 387
RICHTER, C. P., and WOODRUFF, B. G. Lumbar sympathetic dermatomes in man determined by the electrical skin resistance method, 323

SAWYER, C. H., and HOLLINSHEAD, W. H. Cholinesterases in sympathetic fibers and ganglia, 137
Skin resistance method, 323

SKOGLUND, C. R. Modification by electrotonus of the transmission in the artifical synapse formed by severed mammalian nerve, 377
—— Transsynaptic and direct stimulation of post-fibres in the artificial synapse formed by severed mammalian nerve, 365
——, See GRANIT, R., 211
SMITH, W. K. The functional significance of the rostral cingular cortex as revealed by its responses to electrical excitation, 241
SPERRY, R. W. Restoration of vision after crossing of optic nerves and after contralateral transplantation of eye, 15
Stimulation, hypothalamic, 339
STONE, W. E., WEBSTER, J. E., and GURDJIAN, E. S. Chemical changes in the cerebral cortex associated with convulsive activity, 233
Sympathectomy, bilateral, 1
Synapse, artificial, 211, 365
TAYLOR, A. N., See PORTER, E. L., 289
Temperature, artificial synapse and, 211
Thalamus in decorticate cats, 309
TUNTURI, A., See DOW, R. S., 161
ULETT, G., See DOW, R. S., 161
Vasomotor changes, EEG, 449
Veratrine action, 113
Vision, restoration, 15
WAGNER, C. E. Observations of gas bubbles in pial vessels of cats following rapid decompression from high pressure atmospheres, 29
WARD, J. W., See CLARK, S. L., 99
WATSON, C. W., and KENNARD, M. A. The effect of anticonvulsant drugs on recovery of function following cerebral cortical lesions, 221
WEBSTER, J. E., See STONE, W. E., 233
WEISS, P., and EDDS, M. V., JR., Sensory motor nerve crosses in the rat, 173
WOODRUFF, B. G., See RICHTER, C. P., 323